



TKC-TG3 series current sensor is an open loop device based on the principle of the hall effect, with a galvanic isolation between primary and secondary circuit, it provides accurate electronic measurement of three phase DC, AC or pulsed currents.

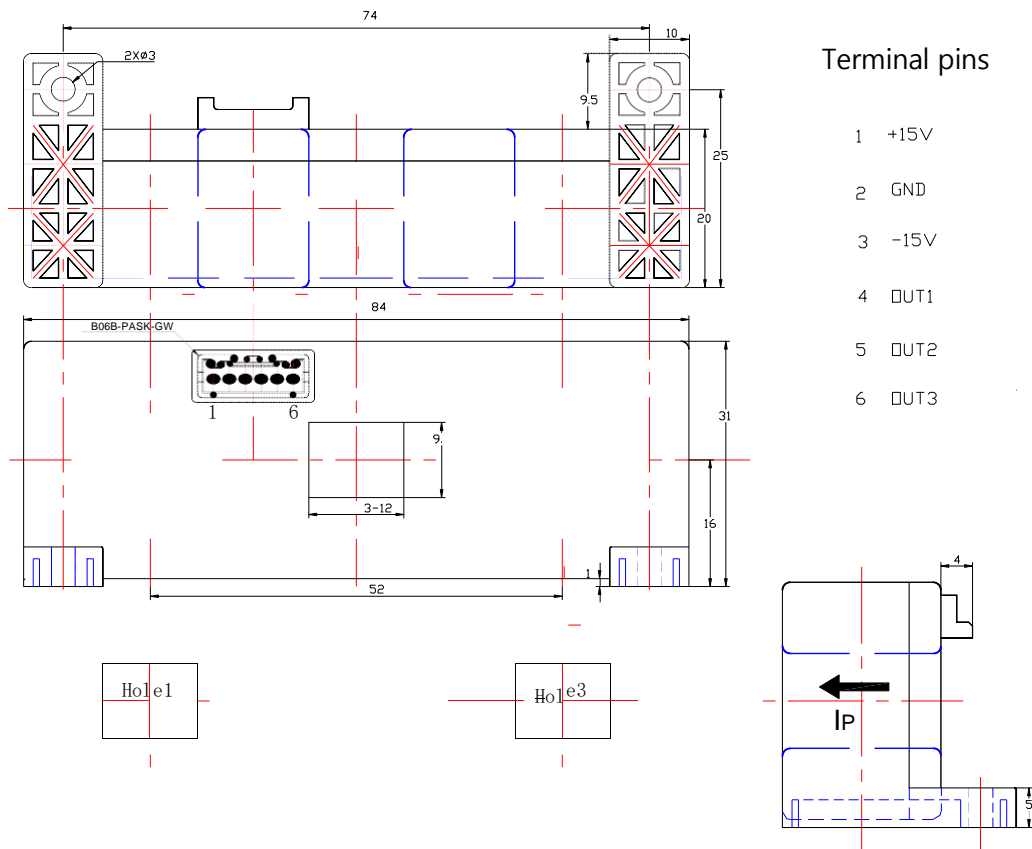
Electrical data (Ta=25°C±5°C , RL=2.0KΩ,CL=10000PF)

Type Parameter	TKC50TG3	TKC100TG3	TKC150TG3	TKC200TG3	Unit
Rated input (I _{pn})	±50	±100	±150	±200	A
Measure range(I _p)	±150	±300	±450	±600	A
Rated output	@I _p =±I _{pn} ±4±1.5%				V
Supply voltage	±15 ±5%				V
Consumption current	≤60				mA
Offset voltage	@I _p =0 ≤30				mV
Magnetic offset	@I _p =±I _{pn} -0 ≤±30				mV
Offset drift	≤±2.0				mV/°C
Amplitude drift	0.08				%/°C
Linearity	@I _p =0-±I _{pn} ≤1				%FS
Response time	@50A/μS, 10%-90% ≤5				μS
Band-width	@-3dB DC-25				KHz
Galvanic isolation	@ 50HZ/60HZ,AC,1min 2.5				KV
Isolation resistance	@ DC 500V 500				MΩ

Applications

- Variable speed drives
- Welding machine
- Battery supplied applications
- Uninterruptible Power Supplies (UPS)
- Electrochemical

Mechanical dimension (for reference only)



Remarks :

1. All dimensions are in mm.
2. General tolerance $\pm 1\text{mm}$

Directions for use

1. It will be in a forward direction when the I_p flows according to the direction of the arrowhead.
2. The primary conductor should be $\leq 120^\circ\text{C}$.
3. The dynamic performance (di/dt and the response time) is the best when the primary hole is fully filled with the bus bar.
4. When the current will be measured goes through a sensor, the voltage will be measured at the output end.
(Note: The false wiring may result in the damage of the sensor)

5. Customs can adjust Output amplitude of the sensor by needs.
6. Custom design in the different rated input current and the output voltage are available.

Standards

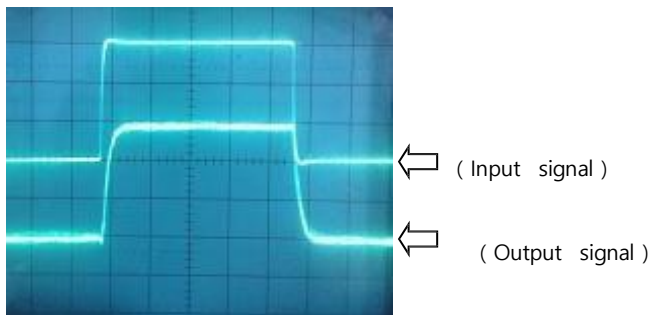
UL94-V0.
EN60947-1:2004
IEC60950-1:2001
EN50178:1998
SJ 20790-2000

General data

	Value	Unit	Symbol
Operating temperature	-40 ~ +105	°C	TA
Storage temperature	-40 ~ +125	°C	TS
Mass(approx)	99	g	M

Characteristics chart

Pulse current signal response characteristic



Effects of impulse noise

